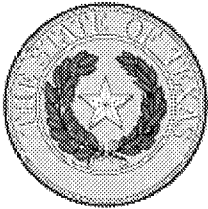


From: [Michael Honeycutt](#)
To: [Sabine Lange](#); [Lindsey Jones](#); [Heather Reddick](#); [Joseph Haney](#); [Tracie Phillips](#)
Subject: FW: M6H1 Harvey - Aspect
Date: Friday, September 08, 2017 8:24:09 AM
Attachments: [M6H1 Hurricane Harvey - Aspect_09072017.docx](#)
[Positive Detections v6.pdf](#)
[image001.png](#)



Michael Honeycutt, Ph.D.
Director, Toxicology Division
Texas Commission on Environmental Quality
Phone: (512)239-1793
Mobile: (512)623-0916
E-Mail: michael.honeycutt@tceq.texas.gov

From: Rauscher, Jon [<mailto:Rauscher.Jon@epa.gov>]
Sent: Thursday, September 07, 2017 6:17 PM
To: Michael Honeycutt <Michael.Honeycutt@tceq.texas.gov>
Cc: R6HarveyENVL <R6HarveyENVL@epa.gov>
Subject: M6H1 Harvey - Aspect

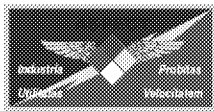
I have attached the Aspect summary and data for the Arkema plant.

Please provide me with your feedback.

09/07/2017

Aspect

The Airborne Spectral Photometric Environmental Collection Technology (ASPECT) aircraft found no exceedances of the Texas comparison values. ASPECT conducted a screening level assessment to evaluate the unreported or undetected releases of hazardous materials or contaminants at the Arkema plant in Crosby, Texas from August 30, 2017 through September 7, 2017. The screening level results from ASPECT were compared to the ASPECT list of Texas Commission on Environmental Quality (TCEQ) short-term Air Monitoring Comparison Values (AMCVs) and found no exceedances of the short-term AMCVs. In addition, the ASPECT was requested to monitor for peroxide which was the source material for the fire.

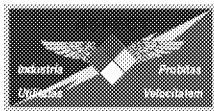


2017 Hurricane Harvey Deployment
Arkema Site and Rapid Needs Assessment Positive Chemical Detections
9/7/2017 6:06:38 PM



Date	Flight #	Primary Mission	Compound	Limit of Detection (ppm)	Detections*
8/29	1	Systems Check			
8/30	2	Arkema Site	No Detections		
8/31	3	Arkema Site	No Detections		
8/31	4	Arkema Site	Peroxide* (Arkema)	5.3	Trace (6.3*)
8/31	5	Arkema Site	Peroxide* (Arkema)	5.3	Trace (6.3*)
9/1	6	Arkema Site	No Detections		
9/1	7	Arkema Site & Zone 5 RNA	Peroxide* (Arkema)	5.3	Trace (6.3*), multiple passes
9/1	8	Arkema Site (Fires)	Peroxide* (Arkema)	5.3	Trace (6.3*), multiple passes
9/2	9	Arkema Site & Zones 5 & 6 RNA	No Detections		
9/2	10	Arkema Site & Zone 6 RNA	Peroxide* (Arkema)	5.3	Trace (6.3*), multiple passes
9/2	11	Arkema Site	Peroxide* (Arkema)	5.3	Trace (6.3*)
9/3	12	Arkema Site Zone 6 & 7 RNA	Arkema: Peroxide	5.3	Trace (6.3*)
			Zone 6: 1-butene	12.0	Trace (13*)
9/3	13	Arkema Site	Peroxide	5.3	7.7 ppm (max)
9/4	14	Zone 7 RNA	No Detections		
9/4	15	Zone 4 RNA	1-butene	12.0	Trace (13*)
9/5	16	Zone 4 RNA	No Detections		
9/5	17	Zone 4 RNA	No Detections		
9/6	18	Zone 10 RNA	No Detections		
9/6	19	Zone 8 RNA	1-butene	12.0	Trace (13*)

* "Trace" detection represents a value slightly above (about 1 ppm) the limit of detection. Peroxide measurements are being reported as requested by the Environmental Unit. These measurements are associated with the Arkema site and were obtained before, during, and after the trailers burned.



2017 Hurricane Harvey Deployment
Arkema Site and Rapid Needs Assessment Positive Chemical Detections
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The table below lists the chemical compounds that are included in the TCEQ short-term AMCV spreadsheet and in the ASPECT automated detection library. The ASPECT automated processing chemical detection algorithms look for every compound listed in the table but only report positive detections.

Chemical Compounds	Short-term AMCV (ppm)	ASPECT Dection Limit (ppm)*
1,1-dichloroethane	1.0	0.8
1-butene	27	12
acetone	11	5.6
dichlorodifluoromethane	10	0.7
ethyl acetate	4	0.8
ethylene	500	5
isobutane	33	15
methyl ethyl ketone	20	7.5
methylene chloride	3.4	1.1
n-butyl acetate	7.4	3.8
n-propyl acetate	2	0.7
propylene	Simple Asphyxiant	3.7
vinyl chloride	27	0.6

* The concentration limits are derived using a 10 meter plume path length.